

TENT COOPERATION TREA

PCT

NOTIFICATION OF THE RECORDING
OF A CHANGE(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

From the INTERNATIONAL BUREAU

To:

BOULT WADE TENNANT
27 Furnival Street
London EC4A IPQ
ROYAUME-UNI

Date of mailing (day/month/year) 21 December 1998 (21.12.98)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference SJA/47870/002	
International application No. PCT/GB97/03317	International filing date (day/month/year) 03 December 1997 (03.12.97)

1. The following indications appeared on record concerning:		
<input checked="" type="checkbox"/> the applicant	<input type="checkbox"/> the inventor	<input type="checkbox"/> the agent <input type="checkbox"/> the common representative
Name and Address RECKITT AND COLMAN PRODUCTS LIMITED One Burlington Lane London W4 2RW United Kingdom	State of Nationality GB	State of Residence GB
	Telephone No.	
	Facsimile No.	
	Teleprinter No.	
2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:		
<input type="checkbox"/> the person	<input type="checkbox"/> the name	<input checked="" type="checkbox"/> the address <input type="checkbox"/> the nationality <input type="checkbox"/> the residence
Name and Address RECKITT AND COLMAN PRODUCTS LIMITED 67 Alma Road Windsor Berkshire SL4 3HD United Kingdom	State of Nationality GB	State of Residence GB
	Telephone No.	
	Facsimile No.	
	Teleprinter No.	
3. Further observations, if necessary:		
4. A copy of this notification has been sent to:		
<input checked="" type="checkbox"/> the receiving Office	<input type="checkbox"/> the designated Offices concerned	
<input type="checkbox"/> the International Searching Authority	<input checked="" type="checkbox"/> the elected Offices concerned	
<input checked="" type="checkbox"/> the International Preliminary Examining Authority	<input type="checkbox"/> other:	

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Maria Victoria CORTIELLO
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38

PATENT COOPERATION TREATY

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

United States Patent and Trademark
Office
(Box PCT)
Crystal Plaza 2
Washington, DC 20231
ETATS-UNIS D'AMERIQUE

in its capacity as elected Office

Date of mailing (day/month/year) 22 June 1998 (22.06.98)	
International application No. PCT/GB97/03317	Applicant's or agent's file reference SJA/47870/002
International filing date (day/month/year) 03 December 1997 (03.12.97)	Priority date (day/month/year) 04 December 1996 (04.12.96)
Applicant McKECHNIE, Malcolm, Tom et al	

1. The designated Office is hereby notified of its election made:

☒ in the demand filed with the International Preliminary Examining Authority on:

25 May 1998 (25.05.98)

☐ in a notice effecting later election filed with the International Bureau on:2. The election ☒ was☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No.: (41-22) 740.14.35

Authorized officer

N. Fischer

Telephone No.: (41-22) 338.83.38



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : A47L 13/40, B08B 6/00	A1	(11) International Publication Number: WO 98/24356 (43) International Publication Date: 11 June 1998 (11.06.98)
(21) International Application Number: PCT/GB97/03317 (22) International Filing Date: 3 December 1997 (03.12.97) (30) Priority Data: 9625664.9 4 December 1996 (04.12.96) GB 9718934.4 5 September 1997 (05.09.97) GB (71) Applicants (for all designated States except US): UNIVERSITY OF SOUTHAMPTON [GB/GB]; Highfield, Southampton SO17 1BJ (GB). RECKITT AND COLMAN PRODUCTS LIMITED [GB/GB]; One Burlington Lane, London W4 2RW (GB). (72) Inventors; and (75) Inventors/Applicants (for US only): McKECHNIE, Malcolm, Tom [GB/GB]; Spring Rise, 12A North Road, Lund, Driffield, East Yorkshire YO25 9TF (GB). GAYNOR, Paul, Terence [NZ/GB]; 23 Spring Crescent, Portswood, Southampton SO17 2FZ (GB). HUGHES, John, Farrell [GB/GB]; 2 Shepherd's Close, Bartley, Southampton SO40 2JL (GB). SWINGLER, Jonathan [GB/GB]; Morse Court, Flat 2, 6 New Road, Netley Abbey, Southampton SO31 5RR (GB).		(74) Agent: BOULT WADE TENNANT; 27 Fumival Street, London EC4A 1PQ (GB). (81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
(54) Title: METHOD FOR CONTROLLING AND REMOVING DUST AND OTHER PARTICLES FROM A MATERIAL		
(57) Abstract <p>A method for controlling and removing dust and other fine particles in a material comprising i) electrostatically charging carrier particles in powder form to give the carrier particles a minimum charge to mass ratio of $\pm 1 \times 10^{-4} \text{C/kg}$, ii) delivering the electrostatically charged carrier particles to the material, whereby the dust and other fine particles in the material agglomerate with the charged carrier particles and iii) removing the resultant agglomerates from the material (for example by vacuuming or brushing). An apparatus for delivering electrostatically charged particles to a material, the apparatus comprising a) a container, in which particles to be electrostatically charged are stored and b) means for delivering the particles from the container to the carpet of fabric material, the delivery means comprising i) a tube or pipe for delivering the carrier particles to the carpet or fine fabric material; and ii) means for expelling particles at high velocity from the container to the material; the tube or pipe being made of such a material that, when carrier particles are passed down the delivery tube at high velocity, a minimum charge to mass ratio of $\pm 1 \times 10^{-4} \text{C/kg}$ is imparted to the particles by the frictional contact of the particles on the inside of the tube or pipe.</p>		

FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AL	Albania	ES	Spain	LS	Lesotho	SI	Slovenia
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AZ	Azerbaijan	GB	United Kingdom	MC	Monaco	TD	Chad
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BR	Brazil	IL	Israel	MR	Mauritania	UG	Uganda
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DK	Denmark	LK	Sri Lanka	SE	Sweden		
EE	Estonia	LR	Liberia	SG	Singapore		

INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 97/03317

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 A47L13/40 B08B6/00

According to International Patent Classification(IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 A47L B08B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 86 05962 A (ZOELL DIETER) 23 October 1986 see abstract; figure 1 ---	1, 10, 17, 18, 23
A	WO 96 23440 A (INCREA OY ; SEPPONEN RAIMO (FI)) 8 August 1996 see abstract see page 2, line 13 - page 3, line 14; figures 1, 2 ---	1, 10, 17, 18, 23
A	US 5 490 300 A (HORN PAUL E) 13 February 1996 see abstract see column 2, line 55 - line 60 see column 3, line 57 - column 4, line 8; figure 2 --- -/--	1, 10, 17, 18, 23

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "S" document member of the same patent family

Date of the actual completion of the international search

30 March 1998

Date of mailing of the international search report

08/04/1998

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Cabral Matos, A

INTERNATIONAL SEARCH REPORT

Int .tional Application No
PCT/GB 97/03317

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 268 935 A (BESSINGER WALTER L) 26 May 1981 see abstract; figure 1 -----	1,10,17, 18,23

INTERNATIONAL SEARCH REPORT

Information on patent family members

Int. .tional Application No

PCT/GB 97/03317

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 8605962 A	23-10-86	AU 5660486 A	05-11-86
		DE 3603041 A	30-10-86
		DE 3686223 A	03-09-92
		EP 0217834 A	15-04-87
		JP 6002257 B	12-01-94
		JP 62502804 T	12-11-87
		US 4751759 A	21-06-88
WO 9623440 A	08-08-96	FI 950388 A	31-07-96
		EP 0805644 A	12-11-97
US 5490300 A	13-02-96	NONE	
US 4268935 A	26-05-81	US 4240569 A	23-12-80
		CA 1134109 A	26-10-82
		CA 1147912 A	14-06-83

PATENT COOPERATION TREATY

From the
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

PCT

09/308860

To:

ALLARD, Susan Joyce
BOULT WADE TENNANT
27 Furnival Street
London EC4A 1PQ
GRANDE BRETAGNE

Miss Allard

Records *afw* 21/10
Notified 4/6/99
In Diary *afw*

NOTIFICATION OF TRANSMITTAL OF
INTERNATIONAL PRELIMINARY
EXAMINATION REPORT

(PCT Rule 71.1)

Date of mailing
(day/month/year)

13. 10. 98

Applicant's or agent's file reference

SJA/47870/002

IMPORTANT NOTIFICATION

International application No.

PCT/GB 97/ 03317

International filing date (day/month/year)

03/12/1997

Priority date (day/month/year)

04/12/1996

Applicant

UNIVERSITY OF SOUTHAMPTON et al.

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.
4. **REMINDER**

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

RECEIVED

Name and mailing address of the IPEA:



European Patent Office
D-80298 Munich
Tel. (+ 49-89) 2399-0, Tx: 523656 epmu d
Fax: (+ 49-89) 2399-4465

Authorized officer

He Roy

Telephone No.

15 OCT 1998

BOULT WADE TENNANT

PATENT COOPERATION TREATY

PCT


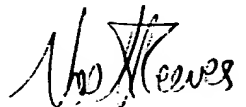
INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference SJA/47870/002	<div style="display: flex; justify-content: space-between;"> FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416) </div>	
International application No. PCT/GB 97/ 03317	International filing date (<i>day/month/year</i>) 03/12/1997	Priority date (<i>day/month/year</i>) 04/12/1996
International Patent Classification (IPC) or national classification and IPC A47L13/40		
Applicant UNIVERSITY OF SOUTHAMPTON et al.		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This **REPORT** consists of a total of 5 sheets, including this cover sheet.
- ☐ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).
- These annexes consists of a total of _____ sheets.

3. This report contains indications and corresponding pages relating to the following items:
- I ☒ Basis of the report
 - II ☐ Priority
 - III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
 - IV ☐ Lack of unity of invention
 - V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
 - VI ☐ Certain documents cited
 - VII ☒ Certain defects in the international application
 - VIII ☒ Certain observations on the international application

Date of submission of the demand 25/05/1998	Date of completion of this report 13.10.98
Name and mailing address of the IPEA;  European Patent Office D-80298 Munich Tel. (+ 49-89) 2399-0, Tx: 523656 epmu d Fax: (+ 49-89) 2399-4465	Authorized officer  Telephone No.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

I. Basis of the report

1. This report has been drawn up on the basis of *(Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.)*

☒ the international application as originally filed

☐ the description, pages , as originally filed
 pages , filed with the demand
 pages , filed with the letter of

☐ the claims, Nos. , as originally filed
 Nos. , as amended under Article 19
 Nos. , filed with the demand
 Nos. , filed with the letter of

☐ the drawings, sheets / fig. , as originally filed
 sheets / fig. , filed with the demand
 sheets / fig. , filed with the letter of

2. The amendments have resulted in the cancellation of:

☐ the description, pages:
☐ the claims, Nos.
☐ the drawings, sheets / fig.

3. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2 (c)).

4. Additional observations, if necessary:

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**1. Statement**

Novelty	Claims	1-23	YES
	Claims		NO
Inventive Step	Claims	1-23	YES
	Claims		NO
Industrial Applicability	Claims	1-23	YES
	Claims		NO

2. Citations and Explanations

No cited prior art shows or suggests method/apparatus for delivering electrostatically charged particles in the range set out in claims 1, 10, 17, 18, 23 (common subject-matter of these claims).

Page 1 problems may be overcome with such method/apparatus.

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

Claims should be in the two-part form based on e.g. one of the documents cited in the Search Report.

Reference should be included in the claims.

Documents cited in the Search Report should be discussed in the description.

It should be clear from the description:

- a) which prior art (document) forms the basis for the two-part form of claims
- b) how the presently-claimed invention differs from this nearest prior art
- c) what technical advantage this distinction brings.

The unit "microns" (page 16) should be replaced or supplemented by metric equivalents.

The term "Haze Carpet Freshener" used on page 18 appears to be a registered trade mark and should be identified as such.

Documents should be referred to by publication number (cf. page 4).

INTERNATIONAL PRELIMINARY EXAMINATION REPORT**VIII. Certain observations on the international application**

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

A single independent claim with a single set of dependent claims should be used in each category as opposed to the present multiple independent claims.

Independent claims in different categories should relate to a single invention; apparatus should be capable of carrying out all method steps.

The description should be consistent with the independent claim(s). (Cf. especially pages 1-12).

Any reference to the invention should only cite features from the independent claim(s).

The independent claim(s) should define sufficient features to ensure that an article/process is defined which fulfils all of the objects of the invention set out.

PATENT COOPERATION TREATY

PCT

09/308860

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference SJA/47870/002	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/GB 97/ 03317	International filing date (day/month/year) 03/12/1997	(Earliest) Priority Date (day/month/year) 04/12/1996
Applicant UNIVERSITY OF SOUTHAMPTON et al.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. ☐ Certain claims were found unsearchable (see Box I).

2. ☐ Unity of invention is lacking (see Box II).

3. ☐ The international application contains disclosure of a **nucleotide and/or amino acid sequence listing** and the international search was carried out on the basis of the sequence listing

☐ filed with the international application.

☐ furnished by the applicant separately from the international application.

☐ but not accompanied by a statement to the effect that it did not include matter going beyond the disclosure in the international application as filed.

☐ Transcribed by this Authority

4. With regard to the title, ☒ the text is approved as submitted by the applicant

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this International Search Report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is:

Figure No. _____ ☐ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 97/03317

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 A47L13/40 B08B6/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 A47L B08B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 86 05962 A (ZOELL DIETER) 23 October 1986 see abstract; figure 1	1, 10, 17, 18, 23
A	WO 96 23440 A (INCREA OY ; SEPPONEN RAIMO (FI)) 8 August 1996 see abstract see page 2, line 13 - page 3, line 14; figures 1, 2	1, 10, 17, 18, 23
A	US 5 490 300 A (HORN PAUL E) 13 February 1996 see abstract see column 2, line 55 - line 60 see column 3, line 57 - column 4, line 8; figure 2	1, 10, 17, 18, 23

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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

30 March 1998

Date of mailing of the international search report

08/04/1998

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Cabral Matos, A

INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 97/03317

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 4 268 935 A (BESSINGER WALTER L) 26 May 1981 see abstract; figure 1 -----</p>	<p>1,10,17, 18,23</p>

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB 97/03317

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 8605962 A	23-10-86	AU 5660486 A	05-11-86
		DE 3603041 A	30-10-86
		DE 3686223 A	03-09-92
		EP 0217834 A	15-04-87
		JP 6002257 B	12-01-94
		JP 62502804 T	12-11-87
		US 4751759 A	21-06-88
WO 9623440 A	08-08-96	FI 950388 A	31-07-96
		EP 0805644 A	12-11-97
US 5490300 A	13-02-96	NONE	
US 4268935 A	26-05-81	US 4240569 A	23-12-80
		CA 1134109 A	26-10-82
		CA 1147912 A	14-06-83